

Neural Network Tracking for LHCb Vertex Detector

jeudi 29 mars 2018 10:45 (20 minutes)

The LHCb experiment is scheduled for an upgrade at the end of 2018. In 2021, it has to collect data at collisions rate of 40MHz and an average of 5-6 PVs per event from 1MHz and 1-2 PVs per event today. We present an approach of using deep learning to reconstruct particle tracks in the vertex subdetector of LHCb, the Vertex Locator (VELO).

Author: TOU, Da Yu (Centre National de la Recherche Scientifique (FR))

Co-auteur: GLIGOROV, Vladimir (LPNHE)

Orateur: TOU, Da Yu (Centre National de la Recherche Scientifique (FR))